

# Y Kalmann Frodason

## List of Publications by Year in Descending Order

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**Version:** 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

18  
papers

283  
citations

10  
h-index

16  
g-index

18  
ext. papers

354  
ext. citations

3.2  
avg, IF

3.9  
L-index

#	Paper	IF	Citations
18	Influence of heat treatments in H <sub>2</sub> and Ar on the E1 center in $\alpha$ -Ga <sub>2</sub> O <sub>3</sub> . <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 115702	2.5	3
17	Multistability of isolated and hydrogenated Ga <sup>0</sup> divacancies in $\alpha$ -Ga <sub>2</sub> O <sub>3</sub> . <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	15
16	Combining steady-state photo-capacitance spectra with first-principles calculations: the case of Fe and Ti in $\alpha$ -Ga <sub>2</sub> O <sub>3</sub> . <i>New Journal of Physics</i> , <b>2020</b> , 22, 063033	2.9	7
15	Ti- and Fe-related charge transition levels in $\alpha$ -Ga <sub>2</sub> O <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2020</b> , 116, 072101	3.4	20
14	Self-trapped hole and impurity-related broad luminescence in $\alpha$ -Ga <sub>2</sub> O <sub>3</sub> . <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 075701	2.5	46
13	Primary intrinsic defects and their charge transition levels in $\alpha$ -Ga <sub>2</sub> O <sub>3</sub> . <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	12
12	Anisotropic and trap-limited diffusion of hydrogen/deuterium in monoclinic gallium oxide single crystals. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 232106	3.4	10
11	Formation and control of the $E_{\text{center}}^{\text{H}}$ center in implanted $\alpha$ -Ga <sub>2</sub> O <sub>3</sub> by reverse-bias and zero-bias annealing. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 464001	3	11
10	Experimental exploration of the amphoteric defect model by cryogenic ion irradiation of a range of wide band gap oxide materials. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> ,	1.8	4
9	Imaging defect complexes in scanning transmission electron microscopy: Impact of depth, structural relaxation, and temperature investigated by simulations. <i>Ultramicroscopy</i> , <b>2020</b> , 209, 112884	3.1	3
8	Negative-U and polaronic behavior of the Zn-O divacancy in ZnO. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	11
7	Anisotropic and plane-selective migration of the carbon vacancy in SiC: Theory and experiment. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	12
6	Broad luminescence from donor-complexed LiZn and NaZn acceptors in ZnO. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	5
5	Electrical charge state identification and control for the silicon vacancy in 4H-SiC. <i>Npj Quantum Information</i> , <b>2019</b> , 5,	8.6	38
4	Diffusion of indium in single crystal zinc oxide: a comparison between group III donors. <i>Semiconductor Science and Technology</i> , <b>2019</b> , 34, 025011	1.8	2
3	Zn vacancy-donor impurity complexes in ZnO. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	28
2	The interaction between lithium acceptors and gallium donors in zinc oxide. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 245702	2.5	1

1 Zn vacancy as a polaronic hole trap in ZnO. *Physical Review B*, **2017**, 95,

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